

Asset & Resource Management (ARM) Solution

— Asset Management

CGI believes that with the huge investment on smart infrastructure, the strengthening regulation in gas distribution and the continued need to do more with less, the implementation of a single asset management function is a key focus area for utilities. Asset Manager stores a complete record and work history of all assets throughout their life cycle in one system. This approach provides utilities with the capability to manage the entire life cycle of assets as an integrated and continuous process to increase operational performance and profitability. Delivering a broad array of capabilities to reduce the life cycle cost of managing assets and asset information, Asset Manager provides accurate information to minimize downtime, extend asset life, and provide proactive and predictive strategies for facilitating efficient interoperability between capital expenditure (CAPEX) and operational expenditure (OPEX).

ADVANCED ASSET MANAGEMENT FOCUSES ON CURRENT AND EMERGING NEEDS FOR UTILITY NETWORK OPERATIONS

ASSET MANAGER

Asset Manager unifies all asset data within a single asset repository to facilitate compliance tracking, maintenance management, asset risk management and asset investment planning. By providing a unified view of all work related to their distributed assets, ARM Asset Manager ensures work is performed on the right asset at the right time and helps increase regulatory compliance in the process.

BENEFITS AND HIGHLIGHTS

- A single asset repository
- Efficiency within the operations and maintenance function through automation of work identification, based on rules and conditions, together with planning capabilities incorporated to reduce multiple visits to the same location
- A rules engine that evaluates cyclical maintenance, criticality, regulatory requirements, revenues and valuation to initiate work and follow-up activity
- Step-based procedures generated via simple configuration, not coding
- Integrated geo-spatial visualization



FEATURED OFFERINGS

CGI'S ARM SUITE ALSO INCLUDES:

RESOURCE MANAGEMENT
RESOURCE OPTIMIZATION TOOLS
TAILORED FOR MULTI-SKILLED,
MULTI-ACTIVITY WORKFORCES

MOBILE WORKFORCE MANAGEMENT
MOBILE WORKFORCE
MANAGEMENT CAPABILITIES
RANGING FROM SERVICE WORK
TO COMPLEX CONSTRUCTION
TASKS

WORK MANAGEMENT
INDUSTRY-DEFINING UTILITY
WORK MANAGEMENT
CAPABILITIES

ANALYTICS
BUSINESS INTELLIGENCE TOOL
FOR DATA ANALYSIS, REPORTING
AND PERFORMANCE MONITORING

- Enabling technology to support regulations such as NERC CIP, DOT 192, DIMP and TIMP
- Fully integrated with the work execution modules—utilizes the integration layer with other work management and mobile workforce solutions
- Reduction in the life cycle cost of managing assets and asset information
- Accurate information minimizing downtime, extending asset life and providing proactive and predictive strategies for facilitating efficient interoperability between CAPEX and OPEX

FEATURES AND FUNCTIONALITY

- Enhanced asset management for transmission and distribution (T&D):
 - Identification of work request (WR) type based on attributes
 - Frequency rules based on attributes
 - Equivalent procedures for survey areas and condition follow-ups
 - Navigation model
 - Processing for uncompleted inspections
- Linear assets:
 - Store length of linear asset
 - Start and end co-ordinates
 - Define facility at each end of a span
- Warranties:
 - Warranty information
 - Warning and condition alert
- Enhanced conditional maintenance strategy support
- Material traceability to improve tracking of material item records to component records
- Improved support for complex assets and multi-hierarchies:
 - Asset Navigator
 - Facility component retirement
 - Component relocation
 - Child facility/component history
- Spatial enablement:
 - Rule-based automated work generation
 - Work forecasting and auditing
 - Condition-based maintenance

ASSET INVESTMENT PLANNER

New to ARM 2, Asset Investment Planner (AIP) enables faster, data-driven asset investment decisions that help utilities to mitigate risks, drive performance, improve customer service and generate sustainable investor returns through more effective asset investment. AIP is fully integrated into ARM 2 to extract asset performance data and automatically generate asset investment plans and supporting projects or work. CGI's AIP solution is in

UTILITY SOLUTIONS SUPPORTED BY ASSET MANAGER AND ASSET INVESTMENT PLANNER:

- Gas network compliance management
- Meter asset management
- Major pipeline construction
- Intelligent asset management
- Asset optimization
- Electric utility asset management

demand by utilities seeking to build strong asset investment cases that consider multiple outcomes based on key success factors such as cost and quality.

BENEFITS AND HIGHLIGHTS

- **Make the right investment for the right assets at the right time:** AIP enables utilities to evaluate all assets across different timeframes (from one to over 25 years). Its powerful optimization engine analyzes the impact of millions of combinations of decisions to identify the most effective course of action. AIP is also useful for maintaining equilibrium between financial and non-financial drivers and supports transparency and audit-ability in terms of how investment decisions are made.
- **Evaluate business risks effectively:** With AIP, utilities can better understand risks in relation to asset performance, service impact and costs to engage in smarter decision making for sustainable business performance.
- **Future-proof your investment cases:** AIP enables utilities to keep pace with evolving regulatory requirements and market conditions and factor these changes into their investment planning.
- **Align with best practices for asset management (e.g., ISO 55000):** AIP's asset management framework is based on industry best practices, enabling you to better assess the impact of your decisions now and in the future.

FEATURES AND FUNCTIONALITY

- An out-of-the-box integrated solution with market-leading risk and investment tools
- Sophisticated decision optimization capability
- Investment decisions based on high-quality information
- Access to a large library of asset models for better comparisons
- Trend and prediction tools
- The ability to integrate and consume data from other enterprise sources
- The facility to generate unlimited investment scenarios
- A market-leading intelligent asset planning engine from SEAMS embedded within the solution

ABOUT CGI

With 68,000 professionals operating in 400 offices and 40 countries, CGI fosters local accountability for client success while bringing global delivery capabilities to clients' front doors. Founded in 1976, CGI applies a disciplined delivery approach that has achieved an industry-leading track record of on-time, on-budget projects. Our high-quality business consulting, systems integration and outsourcing services help clients leverage current investments while adopting new technology and business strategies that achieve top and bottom line results. As a demonstration of our commitment, our average client satisfaction score for the past 10 years has measured consistently higher than 9 out of 10.

For more information about CGI, visit www.cgi.com/arm or email us at info.util-sol@cgi.com.